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(71) Applicant (for all designated States except US): SOCIETE DE PROSPECTION ET D'INVENTIONS TECHNIQUES SPIT [FR/FR]; 150 Route de Lyon, F-26501 Bourg-Les-Valence (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): POURTIER, Fabrice [FR/FR]; Lotissement Lou Coumbelou No. 7, F-26800 Portes Les Vallence (FR). RICORDI, Christian [FR/FR]; 57 Rue de la Capitainerie, F-26500 Bourg Les Vallence (FR).

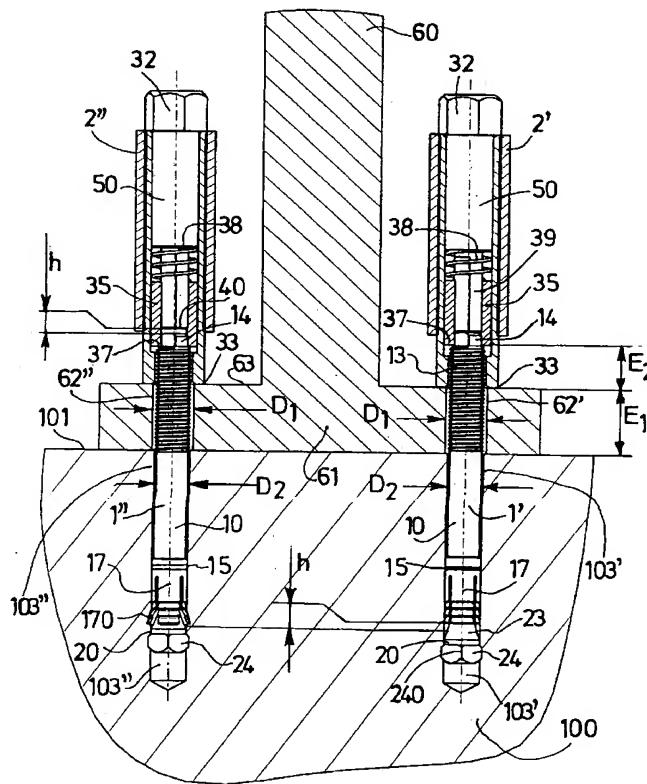
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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: METHOD OF FASTENING A GUARD RAIL BY MEANS OF A GUARD RAIL BOLT, THE GUARD RAIL BOLT AND THE TOOL FOR FASTENING THE GUARD RAIL BOLT



(57) Abstract: The invention relates to a method of fastening a guard rail (60) to a concrete slab (100) by means of a self-expanding and self-undercutting bolt (1, 1', 1'') comprising a dowel (10) having expanding lugs (17) and an expansion core (20, 23), the method comprising a phase consisting in drilling a hole (103', 103'') in the slab, a phase consisting in driving the bolt in to a desired depth (E1 + E2) independent of the depth of the hole, a dynamic tightening phase (h) resulting in the formation of the undercut and a static tightening phase of the guard rail. The guard rail bolt comprises the dowel (10) and a counter-dowel (20). The dowel (10) comprises at its fastening end (11) a guard rail fastening head (13) rigidly connected at its screwing end (12) by means of incipient fracture means (15) to a ring (16) provided with expansion lugs (17). The tool (2) for fastening the guard rail bolt comprises means (32, 50, 39, 35) for driving it in rotation and complementary means (31, 34) for controlling the driving depth of the bolt (1).

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